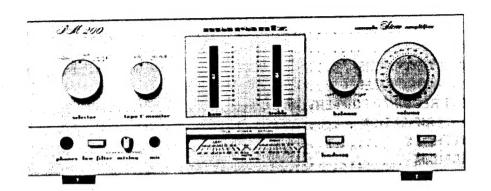


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1. INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz PM 200 Stereo Console Amplifier. Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

2. PRE-AMPLIFIER

Signals from the TUNER and AUX terminals are taken to the SELECTOR SWITCH (SV01).

Signals from the PHONO terminals pass through the phono amplifier (Q401, Q403) where they are amplified by 36dB and at the same time undergo RIAA equalization, before going to the SELECTOR SWITCH (SV01). After being selected by the SELECTOR SWITCH, the incoming signals are taken to the TAPE MONITOR switch and TAPE OUT terminals.

Signals which enter from the TAPE IN terminals are taken to the TAPE MONITOR SWITCH.

Signals which are selected by the TAPE MONITOR SWITCH are taken to the MONO SWITCH BALANCE and VOLUNE potentiometers, and then enter the preamplifier (QE01 and QE03). The preamplifier has a gain of 19dB and also serves as a tone control amplifier, with the frequency response being controlled by the BASS and TREBLE controls.

After passing through the preamplifier, the signals enter the main amplifier.

3. TROUBLESHOOTING ANALYSIS

- 1. Excessive line consumption
 - a. Check for shorted Q806 through Q809.
 - b. Check for shorted transistor Q715, through Q718.
 - c. Check for open Q709, Q710, R717, R718.
- 2. No line consumption or zero bias voltage
 - a. Check line cord, fuse, check for shorted Q709, Q710, Q717, Q718.
 - b. Check for open rectifiers Q806 through Q809 or open L001.
- 3. High hum and noise level
 - a. Check filter capacitors C808, C809, C801, C803, O801

4. POWER AMPLIFIER ADJUSTMENT

ADJUSTMENT OF IDLING CURRENT

Connect a DC voltmeter to between emitters Q715 and Q717. Adjust R717 until 11 mV is reached. Likewise, adjust Q716, Q718 and R718.

5. POWER METER ADJUSTMENT

Adjust the Speaker Terminal to @1 kHz at rated OUTPUT (12.6 V). Adjust the RX07 until the meter indicate 20 W. Adjust the RX08 for another channel.

6. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the PM 200 Stereo Console Amplifier. The wattmeter, AC voltmeter, and variable autotransformer may be assembled as a test fixture as shown schematically in Figure 1. The load resistors and AC ammeter may be assembled into a second test fixture as shown in Figure 2.

7. PERFORMANCE VERIFICATION

TEST PROCEDURE

A. TEST EQUIPMENT

Refer to Table 1 for required test equipment.

B. PRELIMINARY PROCEDURES

1. Make the test setup shown in Figure 1 with the instrument controls set in the following positions:

Line Switch Variable-line switch OFF Variable

Wattmeter Switch Variable Autotransformer ON 0 V (fully CCW)

Load

8 ohms (0.5 mfd-OFF)

Audio Generator Output Gain 1 kHz 5 V range Minimum

AC Voltmeter

30 V range

- Make sure that connections between the resistive load and the system terminals of the PM 200 have negligible resistance when compared with the resistance of the load itself. Appreciable resistance in wiring adds to the total load, resulting in inaccurate measurements of output power.
- Connect amplifier output to load and connect AC cord to line power. Connect shorting plugs to the Phono input jacks of the PM 200.

Table 1. Test Equipment Required for Servicing

Item	Manufacturer and Model No.	Use
Distortion Analyzer		Distortion measurements
Audio Oscillator AC Voltmeter	Sound Technology Model 1700B	Sinewave and squarewave signal source voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester		Trouble shooting
DC Voltmeter	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter Commercial Grade (1 ~ 10 A)		Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstet Model 116B-10A	Adjusts level of primary power to amplifier
Shorting Plug Use phono plug with 600 ohm across center pin and shell		Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5% 100 W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5% 100 W)	Commercial Grade	Provides 4-ohm load for amplifier output termination
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks
AC Power Control Box Optional Item. Fabricate in accordance with Figure 1		Monitors and controls primary power for amplifier
Amplifier Output Load Box Optional Item. Fabricate in accordance with Figure 2		Provides various amplifier loads and can monitor shorted output

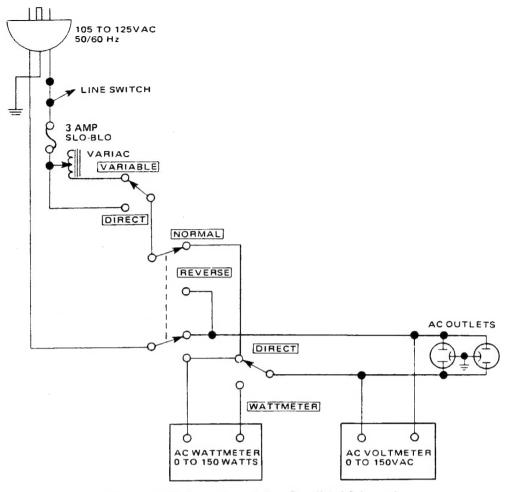
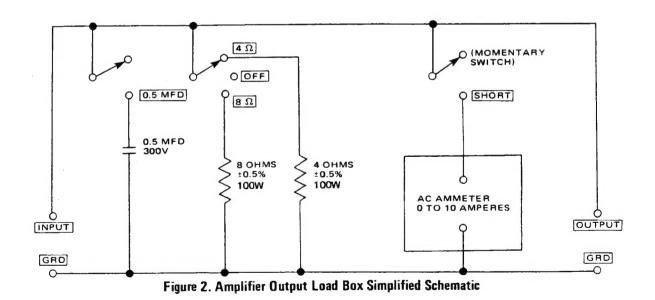


Figure 1. AC Power Control Box Simpligied Schematic



C. TOTAL HUM AND NOISE TEST

 With shorting plugs connected to the Phono input jacks and an 8 ohm resistive load connected across the speaker system output terminals, connect a distortion analyzer across the load.

NOTE:

If the distortion analyzer does not contain a built-in, voltmeter, an AC VTVM may be substituted.

- Set the distortion analyzer controls for voltge measurements and apply power to the amplifier.
 Set the volume control fully CCW. Set the SELECTOR switch to PHONO.
- If the distortion analyzer indicates more than 2.0 mV refer to the trouble analysis section of this manual.
- 4. Set the volume control fully CW. If the distortion analyzer indicates more than 20 mV, refer to the trouble analysis section of this manual.

D. MAXIMUM POWER OUTPUT

- Connect the audio oscillator to the AUX input. Set audio oscillator frequency to 1 kHz. Set SELECTOR switch to AUX.
- With the distortion analyzer connected across the output load (8-ohm), set the analyzer on the 30 VAC scale.
- Turn the analyzer on and increase the audio oscillator output to 150 mV. The AC VTVM should read 12.6 VAC or more.

E. HARMONIC DISTORTION TEST

- Set the frequency of the audio oscillator and the distortion analyzer to 20 kHz.
- Set the controls of the analyzer for voltage measurement on the 30 volt scale.
- 3. Adjust the audio oscillator output level until the analyzer meter indicates 12.6-VAC.
- 4. Switch the distortion analyzer to Set Level and adjust SENSITIVITY for full scale reading on 0 \sim 1% scale.
- 5. Measure the total harmonic distortion with the analyzer and verify it is less than 0.3%.

NOTE:

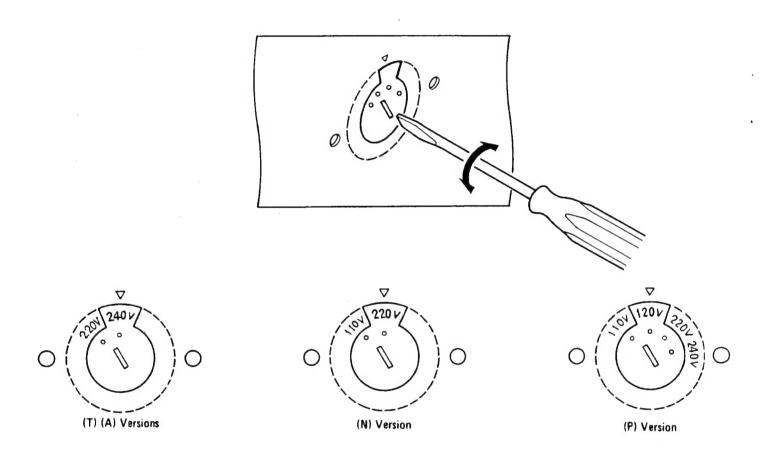
Any parasitic oscillation in the amplifier will be displayed on the oscilloscope when capacitance is switched into the load.

- Switch the distortion analyzer back to SET LEVEL. (Do not readjust sensitivity of analyzer.)
- 7. Change the frequency of the audio oscillator and distortion analyzer to 1 kHz. Adjust audio oscillator output for a full scale reading on the 0 \sim 1% scale.
- 8. Measure the distortion, verifying it is no greater than 0.3%.
- Repeat steps 7 and 8, changing frequency to 20 Hz. Distortion should be no more than 0.3%.
- 10. Check for parasitic oscillation; there should be none.

8. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

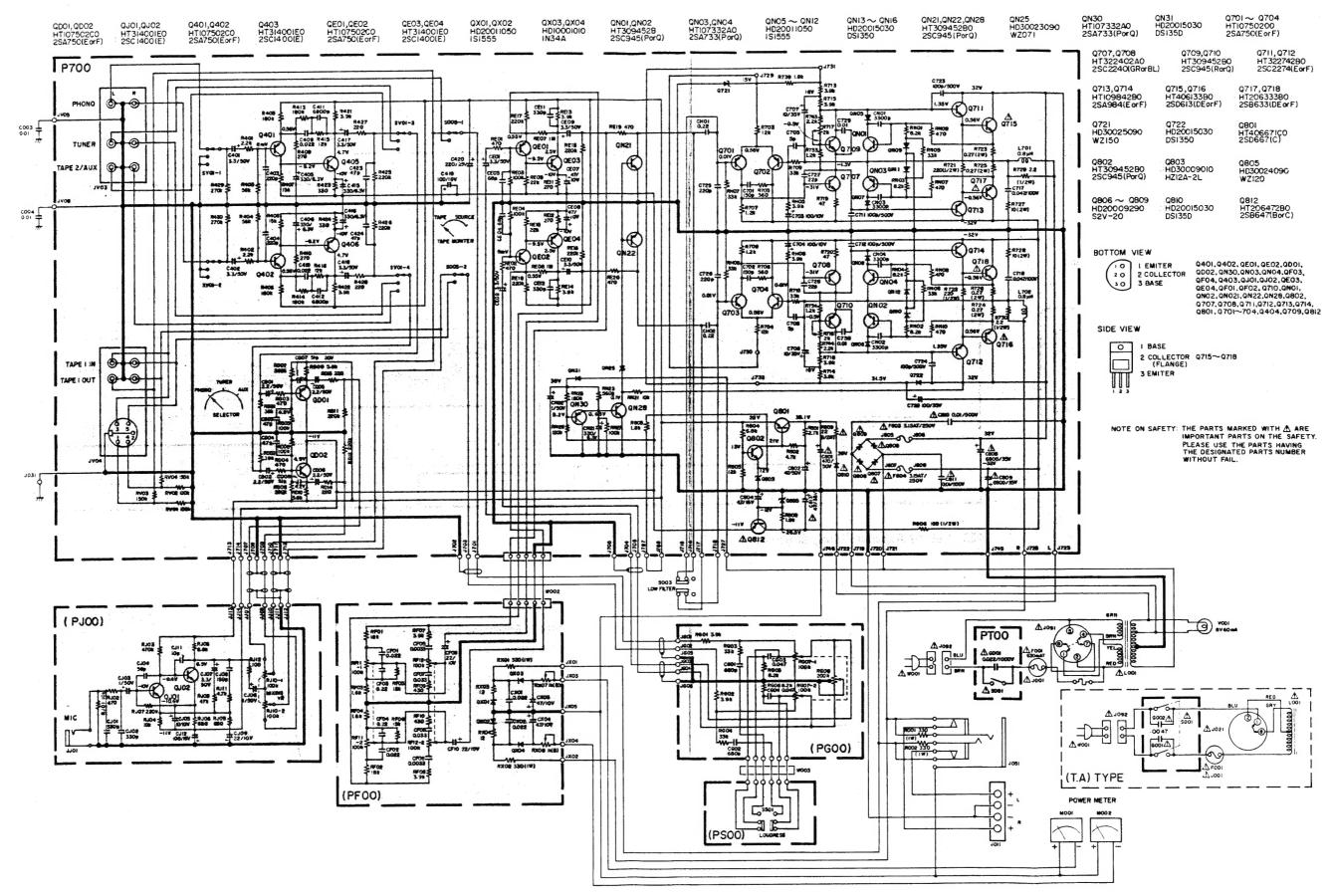
CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. PLEASE DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.



Note on safety: The parts marked with \triangle are important parts on the safety. Please use the parts having the designated parts number without fail.

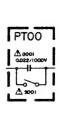
Model PM200

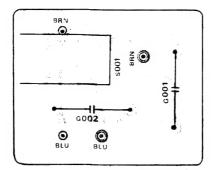
9. SCHEMATIC DIAGRAM



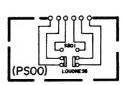
10. DIAGRAM AND COMPONENT LOCATIONS

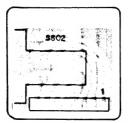
10.2 Microphone Amp. Assembly (PJ00) Schematic Diagram and Component Locations



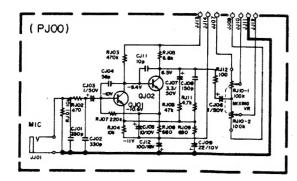


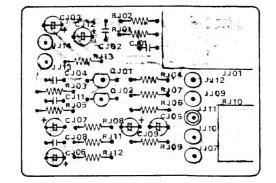
10.3 Loudness Assembly (PS00) Schematic Diagram and Component Locations



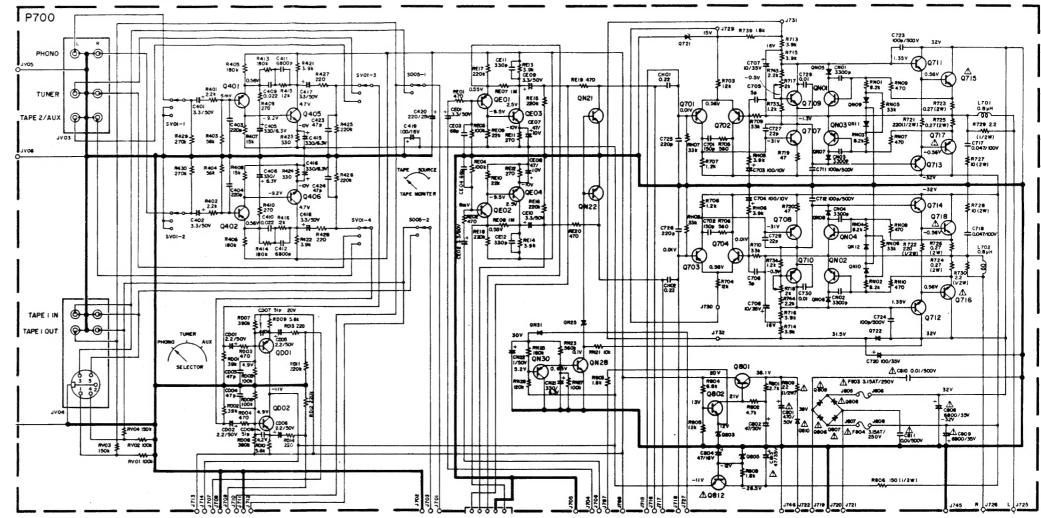


10.4 Switch Assembly (PT00) Schematic Diagram and Component Locations

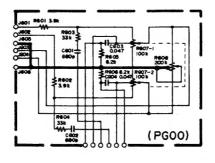


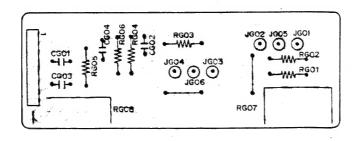


10.1 Main Assembly (P700) Schematic Diagram and Component Locations

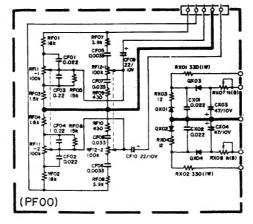


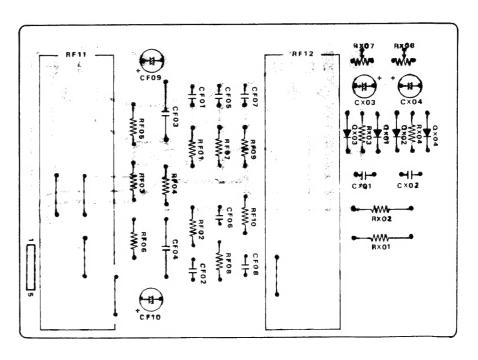
10.5 Volume Assembly (PG00) Schematic Diagram and Component Locations

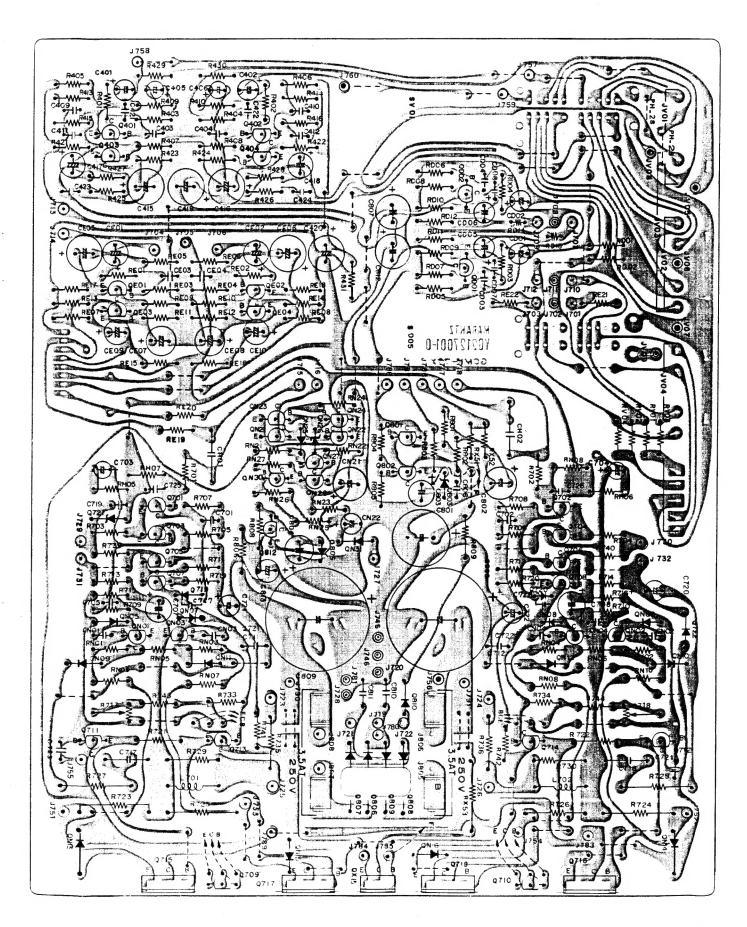




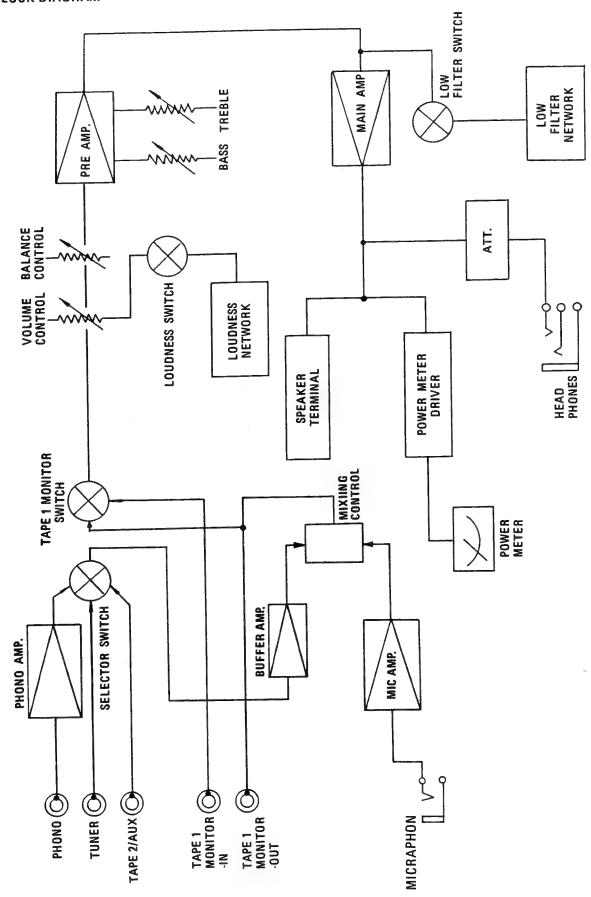
10.6 Tone Assembly (PF00) Schematic Diagram and Component Locations





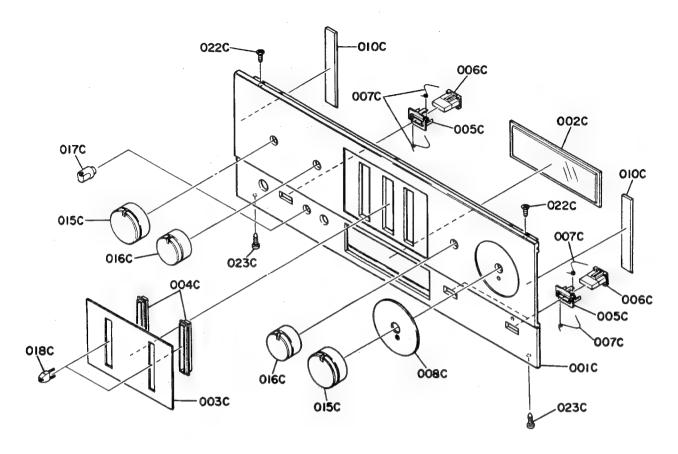


11. BLOCK DIAGRAM



12. EXPLOCED VIEW AND PARTS LIST

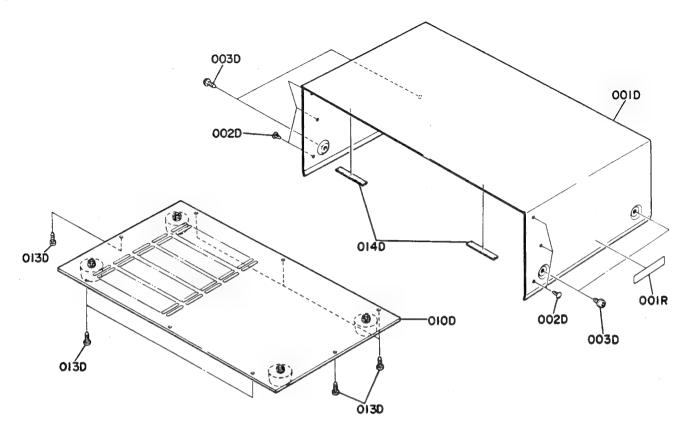
[C01-99] Front Panel



REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION
A 001C 002C 003C 004C 005C 008C 010C	1 1 1 2 3 1 2	2126063400 2126063012 2129158020 2126063020 2129259023 2127259010 2129063030 2128118010	Front Panel Assembly Escutcheon Window Escutcheon Bushing Bushing Escutcheon Spacer

"REF. DESIG.	N	PART NO.	DESCRIPTI	ON
006C 007C 015C 016C 017C 018C 022C 023C	36221222	2127154010 2127115010 2129154010 2129154020 4276154010 2129154040 51340308A0 51280308B0	Knob Spring Knob Knob Knob Knob F.H. Tapped Screw B.H. Tapped Screw	

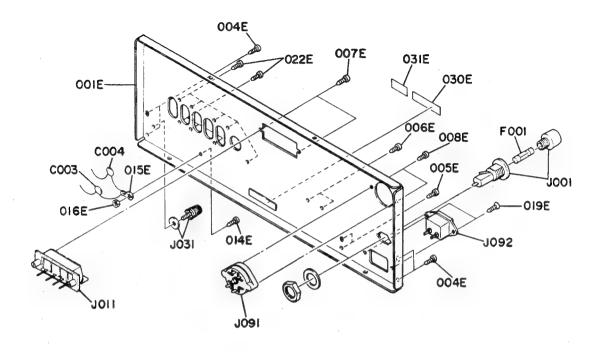
[C02-99] Top Cover



REF. DESIG.	QTY	PART NO.	DESCRIPTION
DESIG.	N		
001D 002D 003D	1 6 4	2128257012 2991259010 51260408U0	Lid, Top Cover Bushing F. Washer Screw F4 x 8

REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION
	1,4		
010D	1	2128257500	Lid, Bottom Cover Assembly
013D	7	51280410U0	B.H. Tapped Screw B4 x 10
014D	2	2965118010	Spacer
001R	1	2932861012	Label
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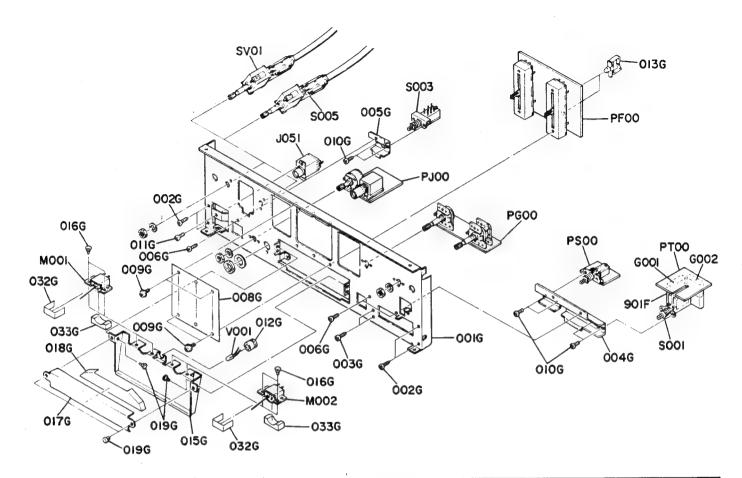
[C03-99] Rear Panel



REF.	Q'TY	PART NO.	DESCRIPTION
DESIG.	N	1 /4111 1101	
001E 004E 005E 006E 007E 008E 014E 015E	1 4 2 2 2 1 1	2126160212 51280308U0 51280308U0 51280308U0 51280308U0 51280310U0 51280310U0 51100306S9 62030049W0	Bracket, Rear Panel B. H. Tapped Screw B3 x 8 B. H. Tapped Screw B3 x 10 B. H. M. Screw B3 x 6 Lug
016E	1	53110303A9	Hexagon Nut
019E	2	51420308T0	O.C.H. Tapped Screw 3 x 8
022E 030E 031E	8 1 1	51280308U0 2112265010 4581861010	B.H. Tapped Screw B3 x 8 Indicator Label

REF.	Q'TY	PART NO.	DESCRIPTION	
DESIG.	N			
C003 C004 ↑ F001 ↑ J001 ↓ J011 ↓ J031 ↑ J092	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DK18103310 DK18103310 FS10063800 YJ08000290 YT03040170 YL03010240 BY05060012 YP04000590	Ceramic Cap. $0.01\mu\text{F} + 80\% - 20\%$ Ceramic Cap. $0.01\mu\text{F} + 80\% - 20\%$ Fuse 630mAT Jack, Fuse Holder Terminal, Speaker Terminal, Ground Voltage Selector (110/220) Plug, A.C. Inlet	

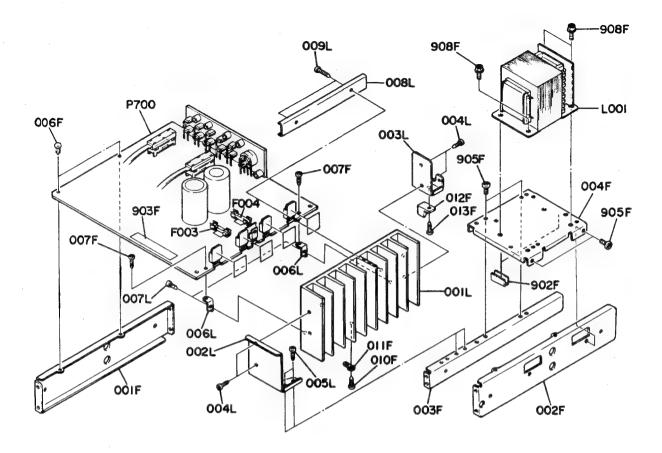
[P01-99] Front Chassis and General Parts



1	REF.	QTY	PART NO. DESCRIPTION		ON	
	DESIG.	N				
	001G 002G 003G 004G 005G 006G	1 4 2 1 1 3	2129160015 51280308B0 51280308B0 2129160023 2129160032 51280308B0	Bracket, Front Chass B.H. Tapped Screw B.H. Tapped Screw Bracket Bracket B.H. Tapped Screw	B3 x 8 B3 x 8	
	008G 009G 010G 011G 012G 013G 015G 016G 017G 018G 032G 032G	1 4 6 1 1 4 1 1 4 2 2 2	2129303022 51480306S9 51100306A9 2417259010 2129005010 2126302014 2276005050 2128303010 2128274013 2912259020 2112053010 2112053030	Mask F. Washer Screw B.H.M. Screw B.H.M. Screw Bushing Clamper Dial Clamper Mask Reflector Bushing Cover Cover	F3 x 6 B3 x 6 B3 x 6	

REF. DESIG.	QTY	PART NO.	DESCRIPTION
DESIG.	N		
∆ S001	1	SP02010440	Push Switch, Power
M001	1	IM11000020	D.C. Meter
M002	1	IM11000020	D.C. Meter
V001	1	IN10030500	Lamp 60mA 8V
SV01	1	SR04030250	Rotary Switch
			•
J051	1	YJ01001200	Jack, Headphone
S003	1	SP02010260	Push Switch, Low Filter
\$005	1	SR04020180	Rotary Switch
G001	1	DF17223800	Film Cap. 0.022μ F $\pm 20\%$
G002	1	DF17223800	Film Cap. 0.022µF ±20%
901F	2	2219120010	Insulator
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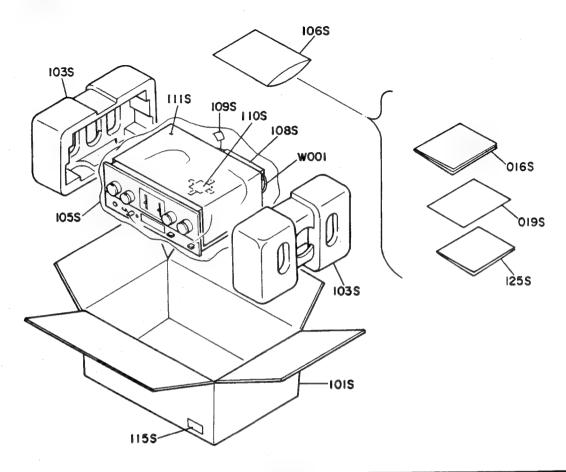
[P02-99] Main P.W. Board and General Parts



ĺ	REF. Q'TY		PART NO.	DESCRIPTI	ON
	DESIG.	N			
١					
	001F	1	2258126010	Stay, (L)	
	002F	1	2258126024	Stay, (R)	
ı	003F	1	2258126035	Stay, Center	
	004F	1	2127160013	Bracket	
	006F	2	2276005050	Clamper	
	007F	2	51260308B0	F. Washer Screw	F3 x 8
1	010F	1	51280306B0	B.H. Tapped Screw	B3 x 6
1	011F	1	62030049W0	Lug	
1	012F	1	2887005012	Clamper	
1	013F	1	51280308B0	B.H. Tapped Screw	B3 x 8
1					
	902F	2	2218259020	Bushing	
-	903F	1 1	2205861010	Label	
1	905F	4	51280408B0	B.H. Tapped Screw	B4 x 8
- 1	908F	4	52040410A0	H. Head Bolt, S.F	
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	QTY	PART NO.	DESCRIPTION
DESIG.	N		
001L	1	2126267010	Heatsink
002L	1	2127160020	Bracket
003L	1	2258160050	Bracket
004L	4	5128030880	B.H. Tapped Screw B3 x 8
005L	2	51280308B0	B.H. Tapped Screw B3 x 8
006L	2	2231160040	Bracket
007L	2	5128030880	B.H. Tapped Screw B3 x 8
008F	1	2258005013	Clamper
009L	2	51280314B0	B.H. Tapped Screw B3 x 14
∆ L001	1	TS16620010	Power Transformer
	:		
P700	1	YG21270010	P.W. Board, Main
l	1	ZZ21268010	P.W. Board Assembly
_			
 ∆ F00 3	1	FS10315800	Fuse 3.15AT
 ∆ F004	1	FS10315800	Fuse 3.15AT
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[H01-99] Packing Materials



Γ		QTY	PART NO.	DESCRIPTION
L	DESIG.	N		
	016S 019S 101S 103S 105S 106S	1 1 1 2 1 1	2127851310 2126851030 2126801012 4214809014 9014335330 9013025010	Instructions Instructions Packing Case Cushion Polyethy Bag Polyethy Bag

108S	REF.	QTY	PART NO.	DESCRIPTION	
1098 1 9560000043 Hang Tag 1108 1 2731821012 Silicage! 1118 1 2918107160 Sheet 1158 3 9526019060 Serial NO. Card 1258 1 2126856010 Circuit Diagram	DESIG.	N			
1098 1 9560000043 Hang Tag 1108 1 2731821012 Silicage! 1118 1 2918107160 Sheet 1158 3 9526019060 Serial NO. Card 1258 1 2126856010 Circuit Diagram				S lavo	
110S 1 2731821012 Silicage! 111S 1 2918107160 Sheet 115S 3 9526019060 Serial NO. Card 125S 1 2126856010 Circuit Diagram					
111S 1 2918107160 Sheet 115S 3 9526019060 Serial NO. Card 125S 1 2126856010 Circuit Diagram					
115S 3 9526019060 Serial NO. Card 125S 1 2126856010 Circuit Diagram					
125S 1 2126856010 Circuit Diagram					
业 W001 1 ZC01805020 A.C. Power Cord	125S	[1]	2126856010	Circuit Diagram	
	∆ W001	1	ZC01805020	A.C. Power Cord	
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13. ELECTRICAL PARTS LIST

REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION		REF. DESIG.	Q'TY N	PART NO.		DESCRIP	TION	
	.,					 "					
			P700-MAIN CIRCUIT B	OARD	C701	1	DD15151370	Ceramic	150pF	±5%	
P700	1	YG21270010	P.W. Board, Main		C702	1	DD15151370	Ceramic	150pF	±5%	
	1	ZZ21268010	P.W. Board Assembly		C703	1	EA10701030	Elect	100µF		10V
1			DTOO CADACITORS		C704	1	EA10701030	Elect	100μF	10.5.5	10V
CD01	1	EA22505090	P700-CAPACITORS Elect 2.2µF	50V	C705 C706	1 1	DD11050370 DD11050370	Ceramic Ceramic	5pF	±0.5pF	
CD02		EA22505090	Elect 2.2µF	50V 50V	C707	l i	EA10605030	Elect	5pF	±0.5pF	50V
CD02		DD15470370	Ceramic 47pF ±5%		C708	;	EA10605030	Elect	10μF 10μF		50V 50V
CD04	1	DD15470370	Ceramic 47pF ±5%		C711	l i	DK16101500	Ceramic	10μr	±10%	50 4
CD05	i	EE22505040	Elect 2.2µF	50V	C712	l i	DK16101500	Ceramic	100pF	±10%	
CD06	1	EE22505040	Elect 2.2µF	50V	"""	'	DK10101300	30.0	, сор.		
CD07	1	DD15510310	Ceramic 51pF ±5%		C717	1	DF16473540	Film	0.047µF	±10%	
CD08	1	DD15510310	Ceramic 51pF ±5%		C718	1	DF16473540	Film	0.047µF	±10%	
i					₫ C720	1	EA10703590	Elect	100µF		35V
CE01	1	EA33505030	Elect 3.3µF	50V	C723	1	DK16101500	Ceramic	100pF		
CE02	1	EA33505030	Elect 3.3µF	50V	C724	1	DK16101500	Ceramic	100pF		
CE03	1	DD15680370	Ceramic 68pF ±5%		C725	1	DK16221300	Ceramic	220pF	±10%	
CE04	1	DD15680370	Ceramic 68pF ±5%		C726	1	DK16221300	Ceramic	220pF	±10%	
CE07	1	EA47601030	Elect 47µF	10V	C727	1	DK15220370	Ceramic	22pF	±5%	
CE08	1	EA47601030	Elect 47μF	10V	C728	1	DK15220370	Ceramic	22pF	±5%	
CE09	1	EA33505030	Elect 3.3µF	50V	C729	1	DK17103300	Ceramic	0.01µF	±20%	
CE10	1	EA33505030	Elect 3.3µF	50V	C730	1	DK17103300	Ceramic	0.01µF	±20%	
CE11	1	DD15331370	Ceramic 330pF ±5%		C801	1	EA47705090	Elect	470µF		50V
CE12	1	DD15331370	Ceramic 330pF ±5%		C802	1	EA47605090	Elect	475		501/
CHO1	1	DF17224050	EII- 0.22-E 420	~	C802	li	EA47601630	Elect Elect	47μF 47μF		50V 16V
CH01 CH02		DF17224050	Film 0.22µF ±20' Film 0.22µF ±20'		C806	l i	DK16102300	Ceramic		±10%	104
CN01	1	DF17224050	Film 3300pF ±20		∆ C808	l i	EB68803520	Elect	6800µF	110%	35V
CN02	1	DF17332350	Film 3300pF ±20		∆ C809	l i	EB68803520	Elect	6800µF		35 V
CN03		DF17332350	Film 3300pF ±20		∆ C810	l i	DK18103510	Ceramic	0.01µF		35 V
CN04	l i l	DF17332350	Film 3300pF ±20		∆ C811	i	DK18103510	Ceramic	0.01µF		
CN21	l i	EA33700690	Elect 330µF	6.3V	C813	1	EA47603590	Elect	47µF		35V
CN22	1	EA10505030	Elect 1µF	50V							
								P700-RE	SISTORS		
C401	1	EA33505030	Elect 3.3µF	50V					stors are ±	5% and 3	(W)
C402	1	EA33505030	Elect 3.3µF	50V	RD01	1	GD05393140	39K			
C403	1	DD15221370	Ceramic 220pf ±5%		RD02	1	GD05393140	39K			
C404	1	DD15221370	Ceramic 220pF ±5%		RD03	1	GD05471140	470			
C405	1	EA33700690	Elect 330µF	6.3V	RD04	1	GD05471140	470			
C406	1	EA33700690	Elect 330µF	6.3V	RD05	1	GD05104140	100K			
C409	1	DF15223350	Film 0.022µF ±5%		RD06 RD07	1 1	GD05104140 GD05394140	100K			
C410 C411	1	DF15223350	Film 0.022µF ±5%		RD08	1	GD05394140	390Ks 390Ks			
C412	1	DF15682350 DF15682350	Film 6800pF ±5% Film 6800pF ±5%		RD09	1	GD05562140	5.6K			
0412	' .	DF15002350	Film 6000pF 13%		RD10	l i l	GD05562140	5.6K			
C415	1	EA33700690	Elect 330µF	6.3V		'	GD00002140	5.01	•		
C416	l i	EA33700690	Elect 330µF	6.3V	RD11	1	GD05224140	220K	Ω		
C417	l i	EA33505030	Elect 3.3µF	50V	RD12	1	GD05224140	220K			
C418	1	EA33505030	Elect 3.3µF	50V	RD13	1 1	GD05221140	220			
C419	1	EA10701630	Elect 100μF	16V	RD14	1	GD05221140	2209	C.		
C420	1	EA22702530	Elect 220µF	25V	RE01	1 1	GD05471140	4709	2		
C423	1	DD15470370	Ceramic 47pF ±5%		RE02	1	GD05471140	470	2		
C424	1	DD15470370	Ceramic 47pF ±5%		RE03	1	GD05104140	100K	3		
					RE04	1	GD05104140	100K			
		1			RE07	1	GD05105140	- 1M1			
					RE08	1	GD05105140	1Ms			
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REF. DESIG.	QTY N	PART NO.	DESCRIPTION
RE09	1	GD05223140	22KΩ
RE10	1	GD05223140	22KΩ
RE11	1	GD05221140	220Ω
RE12	1	GD05221140	220Ω 3.9KΩ
RE13	1 1	GD05392140 GD05392140	3.9KΩ
RE14 RE15	li	GD05392140	220KΩ
RE16	li	GD05224140	220ΚΩ
RE17	l i	GD05224140	220ΚΩ
RE18	1	GD05224140	220KΩ
RE19	1	GD05471140	470Ω
RE20	1	GD05471140	470Ω
RH05	1	GD05392140	3.9ΚΩ
RH06	1	GD05392140	3.9ΚΩ
RH07	1	GD05333140	33KΩ
RH08	1	GD05333140	33ΚΩ
RN01	1	GD05822140	8.2KΩ
RN02	1	GD05822140 GD05822140	8.2KΩ 8.2KΩ
RN03	1	GD05822140	8.2ΚΩ
RN04 RN05	1	GD05333140	33КΩ
RN06	1	GD05333140	33ΚΩ
RN07	1	GG05471140	470Ω
RN08	1	GG05471140	470Ω
RN09	1	GG05471140	470Ω
RN10	1.	GG05471140	470Ω
RN21	1	GD05103140	10ΚΩ
RN23	1	GD05564140	560ΚΩ 180ΚΩ
RN25	1 !	GD05184140 GD05124140	120ΚΩ
RN26 RN27	1 1	GD05124140	100ΚΩ
RV01	1	GD05104140	100ΚΩ
RV02		GD05104140	100ΚΩ
RV03	1	GD05154140	150ΚΩ
RV04	1	GD05154140	150ΚΩ
R401	1	GD05222140	2.2ΚΩ
R402	1	GD05222140	2.2ΚΩ
R403	1	GD05563140	56KΩ 56KΩ
R404	1 !	GD05563140 GD05184140	180ΚΩ
R405 R406	1	GD05184140	2.2
R407		GD05153140	
R408	1 1	GD05153140	
R409		GD05271140	
R410		GD05271140	270Ω
R413	1	GD05184140	180ΚΩ
R414		GD05184140	180ΚΩ
R415	1	GD05123140	1
R416		GD05123140	
R421	1	GD05392140	
R422		GD05392140 GD05331140	
R423	,	GD05331140	33011
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REF.	QTY	PART NO.	DESCRIPTION
DESIG.	N		
	١	CD05331140	330Ω
R424	1	GD05331140 GD05224140	220KΩ
R425	1	GD05224140 GD05224140	220ΚΩ
R426 R427	1	GD05221140	220Ω
R428	i	GD05221140	220Ω
R429	l i	GD05274140	270ΚΩ
R430	i	GD05274140	270ΚΩ
R703	1	GD05123140	12ΚΩ
R704	1	GD05123140	12ΚΩ
R705	1	GD05561140	560Ω
R706	1	GD05561140	560Ω
R707	1	GD05122140	1.2ΚΩ
R708	1	GD05122140	1.2ΚΩ 33ΚΩ
R709	1	GD05333140	33K12
B710	1.	GD05333140	33KΩ
R710	1	GG05392140	3.9KΩ
R714	1 ;	GG05392140	3.9KΩ
R715	1	GG05392140	3.9ΚΩ
R716	li	GG05392140	3.9ΚΩ
R717	1	RA02020180	2KΩ (B) Trimming
R718	1	RA02020180	2KΩ (B) Trimming
R719	1	GG05470140	47Ω
R720	1	GG05470140	47Ω
R721	1	GG05221120	220Ω

R722	1	GG05221120	220Ω 0.27Ω 2W
R723	1	GB05272020	0.27Ω 2W 0.27Ω 2W
R724	1	GB05272020 GB05272020	0.27Ω 2W
R725	1 1	GB05272020	0.27Ω 2W
R727	li	GA05100020	10Ω 2W
R728	1	GA05100020	10Ω 2W
R729	li	RC10022120	2.2Ω ±10% ½W
R730	l i	RC10022120	2.2Ω ±10% ½W
R733	1	GD05122140	1.2ΚΩ
R734	1	GD05122140	1.2ΚΩ
R739	1	GG05182140	1.8KΩ 2.2KΩ
R743	1	GD05222140 GD05222140	2.2ΚΩ
R744 R801	1	GG05272140	2.7ΚΩ
R802	1	GG05472140	4.7ΚΩ
R803	1 1	GG05182140	1.8ΚΩ
R804	1	GD05682140	6.8KΩ
R805	1	GD05123140	
R806	1	RF05151140	150Ω Fusible
R808	1	GG05182120	
R809	1	RF05220120	22Ω ½W Fusible
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REF. DESIG.	QTY	PART NO.	DES	CRIPTION
DESIG.	N			
			P700-SEMIC	ONDUCTORS
QD01	1	HT107502C0	Transistor	2SA750(E or F)
QD02	1	HT107502C0	Transistor	2SA750(E or F)
QE01	1	HT107502C0	Transistor	2SA750(E or F)
QE02	1	HT107502C0	Transistor	2SA750(E or F)
QE03	1	HT314001E0	Transistor Transistor	2SC1400(E) 2SC1400(E)
QE04 QN01	1 1	HT314001E0 HT309452B0	Transistor	2SC945(P or Q)
QN02	1	HT309452B0	Transistor	2SC945(P or Q)
QN03	1	HT107332A0	Transistor	2SA733(P or Q)
QN04	1	HT107332A0	Transistor	2SA733(P or Q)
QN05	1	HD20011050	Diode	1S1555
QN06	1	HD20011050	Diode	1S1555
QN07	1	HD20011050	Diode	181555
80ND	1	HD20011050	Diode	1\$1555
QN09	1	HD20011050	Diode	1S1555
QN10	1	HD20011050 HD20011050	Diode	1S1555 1S1555
QN11	1	HD20011050 HD20011050	Diode Diode	151555 1S1555
QN12 QN13	1	HD20011050	Diode	D\$135D
QN14	1	HD20015030	Diode	DS135D
Q1414	'	HD20015030	Diode	D3133D
QN15	1	HD20015030	Diode	DS135D
QN16	i	HD20015030	Diode	DS135D
QN21	1	HT309452B0	Transistor	2SC945(P or Q)
QN22	1	HT309452B0	Transistor	2SC945(P or Q)
QN25	1	HD30023090	Zener	WZ071
QN28	1	HT309452B0	Transistor	2SC945(P or Q)
QN30	1	HT107332A0	Transistor	2SA733(P or Q)
QN31	1	HD20015030	Diode	DS135D
Q401	1	HT107502C0	Transistor	2SA750(E or S)
Q401	1	HT107502C0	Transistor	2SA750(E or S)
Q403	l i	HT314001E0	Transistor	2SC1400(E)
Q404	l i	HT314001E0	Transistor	2SC1400(E)
	1			
Q701	1	HT107502C0	Transistor	2SA750(E or F)
Q702	1	HT107502C0	Transistor	2SA750(E or F)
Q703	1	HT107502C0	Transistor	2SA750(E or F)
Q704	1	HT107502C0	Transistor	2SA750(E or F)
Q707	1	HT322402A0	Transistor	2SC2240(GR or BL)
Q708	1	HT322402A0	Transistor	2SC2240(GR or BL)
Q709	1	HT309452B0	Transistor	2SC945(P or Q)
0710	1 1	HT30945280	Transistor	2SC945(P or Q)
Q721 Q722	1	HD30025090 HD20015030	Zener Diode	WZ155 DS135D
4/22	1	11020013030	Diode	201000
Q711	1	HT322742B0	Transistor	2SC2274(E or F)
Q712	1	HT322742B0	Transistor	2SC2274(E or F)
Q713	1	HT109842B0	Transistor	2SA984(E or F)
Q714	1	HT109842B0	Transistor	2SA984(E or F)
∆Q715	1	HT406133B0	Transistor	2SD613(D,E or F)
∆ Q716	1	HT406133B0	Transistor	2SD613(D,E or F)
∆ Q717	1	HT206333B0	Transistor	2SB633(D,E or F)
 ∆ Q718	1	HT206333B0	Transistor	2SB633(D,E or F)
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REF.	QTY	PART NO.	DESCRIPTION
DESIG.	N		
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Q801	1	HT406671C0	Transistor 2SD667(C)
0802	1	HT309452B0	Transistor 2SC945(P or Q)
Q803	1	HD30009010	Zener HZ12A-2L
Q805	1	HD30024090	Zener WZ120
∆ Q806	1	HD20009290	Diode S2V-20
∆ Q807	1	HD20009290	Diode S2V-20
7 C808	i	HD20009290	Diode S2V-20
∆ 0809	i	HD20009290	Diode S2V-20
Q810	1	HD20015030	Diode DS135D
Q812	1	HT206472B0	Transistor 2SB647(B or C)
			P700-MISCELLANEOUS
JV03	1	YT02060140	Terminal
JV04	1	YT02050010	Terminal
J805	1	YJ08000270	Jack, Fuse Holder
J806	1	YJ08000270	Jack, Fuse Holder
J807	1	YJ08000270	Jack, Fuse Holder
J808	1	YJ08000270	Jack, Fuse Holder
			01-1-0-11
L701	1	LL23915120	Choke Coil
L702	' '	LL23915120	Choke Coil
S005	1	SR04020180	Rotary Switch
3005	'	3110-4020100	Hotaly Switch
SV01	1	SR04030250	Rotary Switch
• • • • • • • • • • • • • • • • • • • •	'	0.101000200	
	1		PF00-TONE AMP.
	1		CIRCUIT BOARD
PF00	1	YK21261510	P.W. Board, Tone Amp.
	1	ZZ21268510	P.W. Board Assembly
			PF00-CAPACITORS
CF01	1	DF16223350	Film 0.022µF ±10%
CF02	1	DF16223350	Film 0.022µF ±10%
CF03	1	DF16224350	Film 0.22µF ±10%
CF04	1	DF16224350	Film 0.22µF ±10%
CF05	1	DF16332350	Film 0.0033µF ±10%
CF06	1	DF16332350	Film 0.0033µF ±10%
CF07	1	DF16333350	Film 0.033µF ±10%
CF08	1	DF16333350	Film 0.033µF ±10%
CF09	1	EA22601090	Elect 22µF 10V
CF10	1	EA22601090	Elect 22μF 10V
CX01	1	DK18223320	Ceramic 0.022µF
CX02	l i	DK18223320	Ceramic 0.022µF
CX03	1	EA47601030	Elect 47µF 10V
CX04	1	EA47601030	Elect 47µF 10V
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REF.	Q'TY	24 PT NO	DESCRIPTION
DESIG.	N	PART NO.	DESCRIPTION
RF01 RF02 RF03 RF04 RF05 RF06 RF07 RF09 RF10 RF11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GD05183140 GD05183140 GD05152140 GD05152140 GD05153140 GD05153140 GD05392140 GD05392140 GD05471140 RS01040140	PF00-RESISTORS (All Resistors are ±5% and ½W) 18ΚΩ 18ΚΩ 1.5ΚΩ 1.5ΚΩ 15ΚΩ 3.9ΚΩ 3.9ΚΩ 470Ω 470Ω 100ΚΩ (C) x 2 Variable
RF12 RX01 RX02 RX03 RX04 RX07 RX08	1 1 1 1 1 1 1	RS01040140 GA05331010 GA05331010 GD05120140 GD05120140 RA01020300 RA01020300	100ΚΩ (C) x 2 Variable 330Ω 1W 330Ω 1W 12Ω 12Ω 1ΚΩ (B) Trimming 1ΚΩ (B) Trimming
QX01 QX02 QX03 QX04	1 1 1 1	HD20011050 HD20011050 HD10001010 HD10001010	PF00-DIODE Diode 1S1555 Diode 1S1555 Diode 1N34A Diode 1N34A
PG00	1 1	YK21261520 ZZ21268520	PG00-VOLUME CONTROL CIRCUIT BOARD P.W. Board, Volume Control P.W. Board Assembly
CG01 CG02 CG03 CG04	1 1 1 1	DK16681300 DK16681300 DF16473300 DF16473300	PG00-CAPACITORS Ceramic 680pF ±10% Ceramic 680pF ±10% Film 0.047μF ±10% Film 0.047μF ±10%
RG01 RG02 RG03 RG04 RG05 RG06 RG07	1 1 1 1 1	GD05392140 GD05392140 GD05333140 GD05333140 GD05822140 GD05822140 RM01040270 RM02040080	PG00-RESISTORS (All Resistors are ±5% and %W) 3.9ΚΩ 3.9ΚΩ 33ΚΩ 33ΚΩ 8.2ΚΩ 8.2ΚΩ 100ΚΩ (B) Variable 200ΚΩ (B) Variable
PJ00	1 1	YK21261540 ZZ21268540	P.W. Board, Mic Amp. P.W. Board Assembly
CJ01 CJ02 CJ03 CJ04 CJ05 CJ06 CJ07 CJ08 CJ09 CJ11 CJ12	1 1 1	DD15331370 DD15331370 EA10505090 DD15560370 EA10601630 EA33505030 DD15151370 EA22601690 DD11100370 EA10701630	Elect 1μF 50V Ceramic 56pF ±5% Elect 10μF 16V Elect 3.3μF 50V Elect 3.3μF 50V Ceramic 150pF ±5% Elect 22μF 16V Ceramic 10pF ±0.5pF

RJ01	REF.	QTY	PART NO.	DESCRIPTION
RJ01	DESIG.	N	1 4111 110:	-100
RJ01				
RJ01				B IOO DECISTORS
RJ01 1 GD05103140				
RJ02 1 GD05471140 470Ω RJ03 1 GD05474140 470KΩ RJ04 1 GD05103140 10KΩ RJ05 1 GD05682140 6.8KΩ RJ06 1 GD05561140 560Ω RJ07 1 GD05224140 476KΩ RJ08 1 GD05473140 476KΩ RJ10 1 RM01040280 100KΩ (B) x 2 Variable RJ11 1 GD05472140 4.7KΩ RJ12 1 GD05101140 100Ω RJ13 1 75061001P0 Jumper QJ01 1 HT314001E0 Transistor 2SC1400(E) Transistor 2SC1400(E) Transistor 2SC1400(E) Transistor 2SC1400(E) PS00-LOUDNESS CIRCUIT BOARD P.W. Board, Loudness P.W. Board Assembly PS00-WB Switch, Loudness P.W. Board Assembly PT00 1 YK21261550 P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board Assembly	D 101		GD05103140	
RJ03 1 GD05474140 RJ04 1 GD05103140 RJ05 1 GD05682140 RJ06 1 GD05561140 RJ07 1 GD05224140 RJ08 1 GD05561140 RJ09 1 GD05681140 RJ09 1 GD05681140 RJ10 1 RM01040280 RJ11 1 GD05472140 RJ12 1 GD05472140 RJ13 1 75061001P0 CJ01 1 HT314001E0 CJ02 1 HT314001E0 CJ02 1 YK21261530 Transistor 2SC1400(E) Transistor 2SC1400(E) PJ00-SEMICONDUCTORS Transistor 2SC1400(E) Transistor 2SC1400(E) PJ00-JACK Jack, Mic PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD PT00 1 YK21261550 Transistor 2SC1400(E) PJ00-SWITCHES Push Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board Assembly PID0-POWER SWITCH CIRCUIT BOARD P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD POD-POWER SWITCH POD				
RJ04 1 GD05103140 10KΩ RJ05 1 GD05682140 6.8KΩ RJ06 1 GD05561140 560Ω RJ07 1 GD0524140 220KΩ RJ09 1 GD05473140 47KΩ RJ09 1 GD05881140 680KΩ RJ10 1 RM01040280 100KΩ (B) x 2 Variable RJ11 1 GD05472140 4.7KΩ RJ12 1 GD05101140 100Ω RJ13 1 75061001P0 Jumper QJ01 1 HT314001E0 Transistor 2SC1400(E) Transistor 2SC1400(E) PJ00-SEMICONDUCTORS Transistor 2SC1400(E) Transistor 2SC1400(E) PJ00-JACK Jack, Mic PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board, P		1 *		
RJ05 1 GD05682140 6.8KΩ RJ06 1 GD05561140 560Ω RJ07 1 GD05224140 220KΩ RJ08 1 GD05473140 47KΩ RJ09 1 GD05681140 680KΩ RJ10 1 RM01040280 100KΩ (B) x 2 Variable RJ11 1 GD05472140 4.7KΩ RJ12 1 GD05101140 100Ω RJ13 1 75061001P0 Jumper QJ01 1 HT314001E0 Transistor 2SC1400(E) Transistor 2SC1400(E) Transistor 2SC1400(E) PJ00-JACK Jack, Mic PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PW. Board, Power Switch CIRCUIT BOARD PT00 1 YK21261550 P.W. Board, Power Switch PT00 1 YK21261550 P.W. Board, Power Switch PT00-POWER SWITCH CIRCUIT BOARD PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Boar		1 1		
RJ06 1 GD05561140 S00Ω RJ07 1 GD05224140 ATKΩ ATKΩ GD05681140 GB05681140 GB05681140 GB05681140 GB05681140 GB05681140 GB05681140 GB05681140 GB05681140 GB0572140 ATKΩ GD05472140 ATKΩ GD05101140 ATS061001P0 Jumper PJ00-SEMICONDUCTORS Transistor 2SC1400(E) Transistor 2SC1400(E) Transistor 2SC1400(E) ATMOST ATMO		1 1		
RJ07 1 GD05224140		1 -		-
RJ08		1 *		220KΩ
RJ10	RJ08	1	GD05473140	47ΚΩ
RJ11	RJ09	1	GD05681140	680KΩ
RJ12	RJ10	1	RM01040280	100KΩ (B) x 2 Variable
RJ13	RJ11	1	GD05472140	111111111111111111111111111111111111111
QJ01	RJ12		GD05101140	100Ω
QJ01 1 HT314001E0 Transistor 2SC1400(E) JJ01 1 YJ01001340 PJ00-JACK JJ01 1 YK21261530 PS00-LOUDNESS CIRCUIT BOARD PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PT00 1 YK21261550 PUSH Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly P.W. Board Assembly Δ G001 1 DF17223800 Film Cap. 0.022μF ±20% Δ G002 1 SP02010440 Puch Switch, Power	RJ13	1	75061001P0	Jumper *
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SS01 1 SP02010260 Push Switch, Loudness	1	'	2221200000	1.11. Dodi d Assembly
SS01 1 SP02010260 Push Switch, Loudness	1			PS00-SWITCHES
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Δ G001 1 DF17223800 Film Cap. 0.022μF ±20% Δ G002 1 DF17223800 Film Cap. 0.022μF ±20% Δ S001 1 SP02010440 Puch Switch, Power	PT00			·
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△ S001 1 SP02010440 Puch Switch, Power				
	∆ G002	יו	DF1/223800	Film Cap. 0.022#F ±20%
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	T
(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

14. TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUTI TOTAL HARI I.M. DISTORT	PUT, DIN, 4 OHM, PER CHANNEL
POWER OUTI TOTAL HARI I.M. DISTORT (250 Hz	PUT, DIN, 8 OHM, PER CHANNEL
	DWIDTH
Frequency Re Phono Aux Input Termina	(RIAA)
Phono:	Input Impedance 47 k ohms Input Capacitance 250 pF Input Sensitivity 2.8 mV Overload Margin 35 dB
Aux:	Input Impedance
Phono Dynam Channel Balan	lent Input Noise
Phono, 1 k Aux, 1 kHz Tape, 1 kH	Hz 47 dB z 62 dB z 62 dB cossatlk (Worst Point), 1 kHz 55 dB
Tape Out Output Imped	415 mV
Tape Out	
GENERAL	
Power Require	ements
Idling Power	nption at Rated Output, both Channels Driven
Transistors	r Complement
Panel Heigh	
Unit Alone	Shipment